

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P522635

Luminaire Tested: **GLAN-SA1C-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7119 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

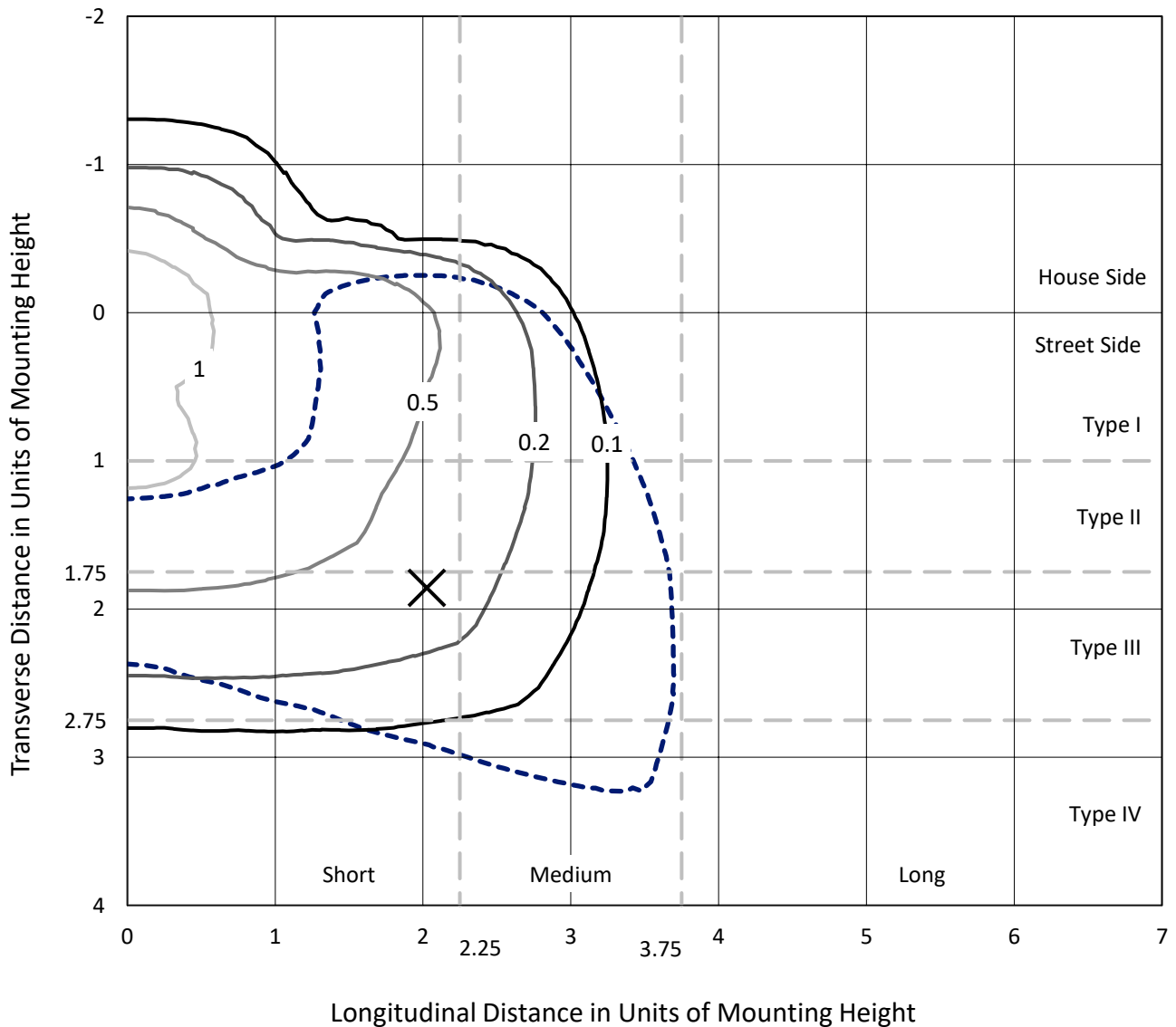
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

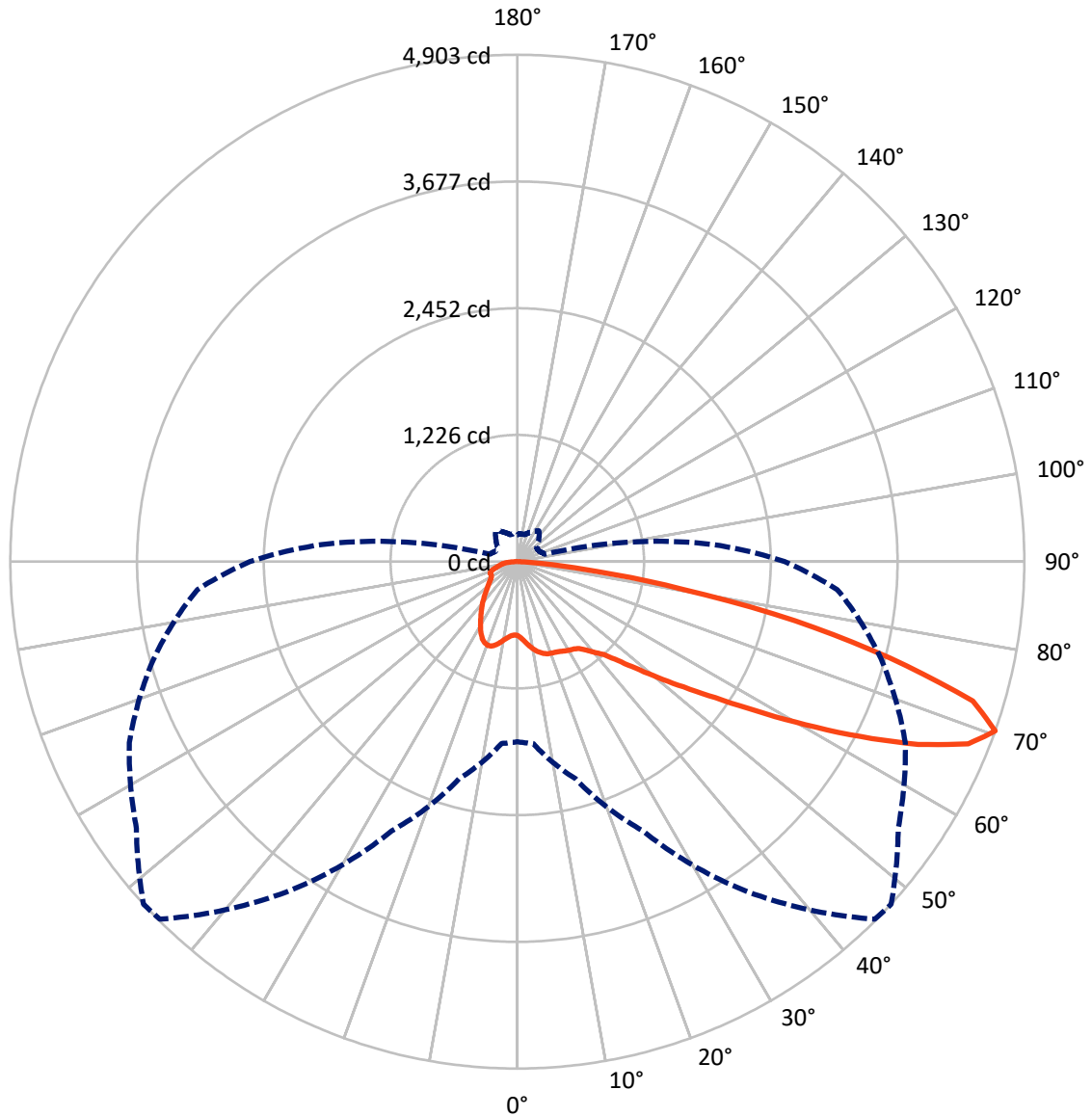
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1611.9 | 0.0 | 1611.9 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 5507.1 | 0.0 | 5507.1 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 7119.0 | 0.0 | 7119.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.7 | 1.0 |
| 10°-20° | 246.3 | 3.5 |
| 20°-30° | 409.5 | 5.8 |
| 30°-40° | 580.5 | 8.2 |
| 40°-50° | 856.9 | 12.0 |
| 50°-60° | 1484.2 | 20.8 |
| 60°-70° | 2096.5 | 29.4 |
| 70°-80° | 1205.2 | 16.9 |
| 80°-90° | 166.3 | 2.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 7119.0 | 100.0 |
| 0°-180° | 7119.0 | 100.0 |

Coefficient of Utilization



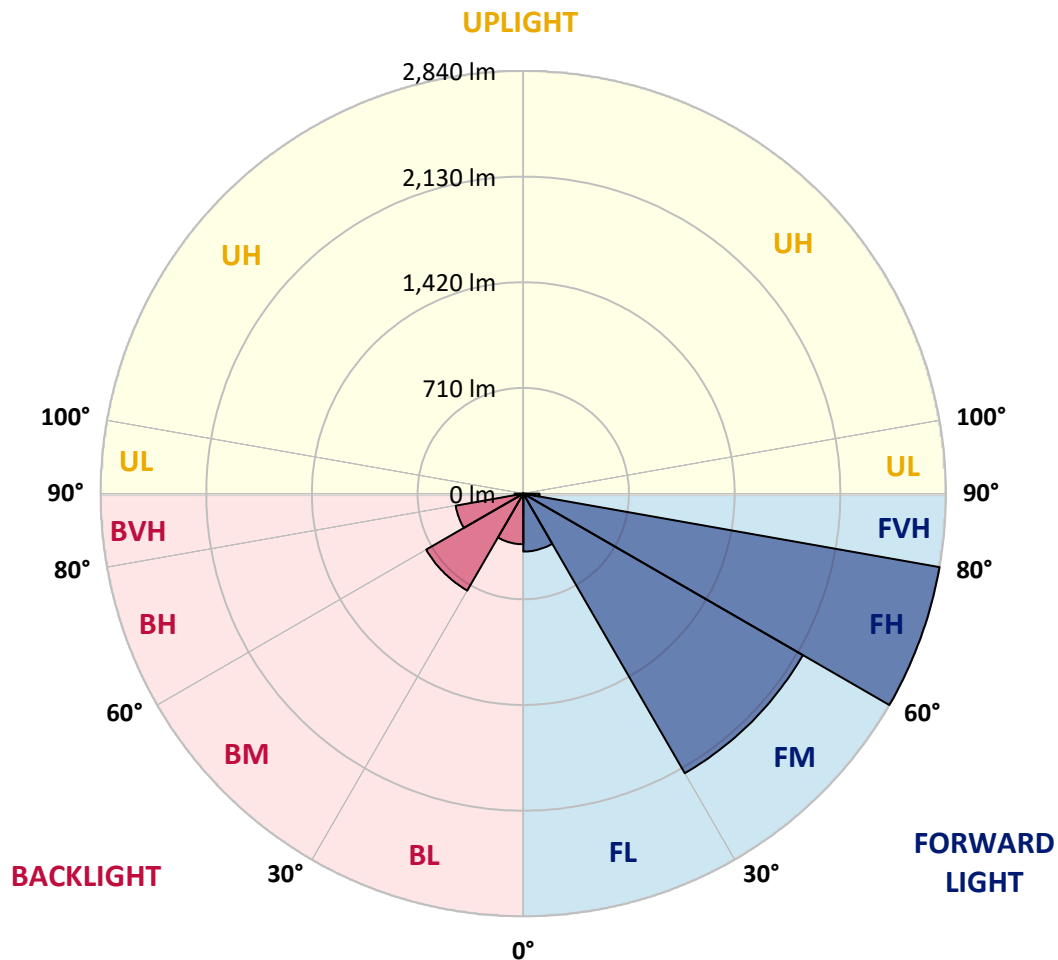
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 389.3 | 5.5 | | | |
| FM (30°-60°) | 2169.0 | 30.5 | | | |
| FH (60°-80°) | 2840.2 | 39.9 | | | G2/5000 |
| FVH (80°-90°) | 108.6 | 1.5 | | | G2/225 |
| BL (0°-30°) | 340.2 | 4.8 | B1/500 | | |
| BM (30°-60°) | 752.6 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 461.5 | 6.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 57.7 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 |
| 2.5° | 760.8 | 758.1 | 757.7 | 752.0 | 748.9 | 743.2 | 740.9 | 735.6 | 729.1 | 722.7 | 716.6 |
| 5° | 820.6 | 820.6 | 817.9 | 809.9 | 797.3 | 784.4 | 778.7 | 768.4 | 750.1 | 735.2 | 722.7 |
| 7.5° | 881.9 | 882.7 | 877.3 | 865.5 | 847.6 | 826.7 | 821.3 | 806.1 | 780.2 | 758.5 | 739.8 |
| 10° | 934.9 | 934.9 | 927.6 | 911.6 | 889.1 | 866.3 | 860.9 | 843.8 | 814.9 | 787.8 | 763.4 |
| 12.5° | 975.2 | 975.2 | 965.7 | 944.8 | 920.4 | 899.8 | 893.7 | 877.3 | 850.3 | 820.2 | 789.3 |
| 15° | 1001.5 | 999.6 | 988.9 | 965.3 | 941.7 | 923.8 | 919.6 | 905.9 | 881.1 | 850.7 | 816.0 |
| 17.5° | 1002.7 | 1001.9 | 991.6 | 971.8 | 951.2 | 939.0 | 936.4 | 927.2 | 907.8 | 878.9 | 842.3 |
| 20° | 980.6 | 982.1 | 975.2 | 961.1 | 951.2 | 945.9 | 944.8 | 941.7 | 928.0 | 900.9 | 864.4 |
| 22.5° | 956.9 | 959.6 | 953.1 | 945.5 | 944.8 | 950.1 | 950.9 | 951.6 | 942.9 | 916.6 | 883.0 |
| 25° | 951.2 | 953.1 | 946.7 | 939.8 | 944.0 | 958.1 | 961.1 | 964.2 | 957.3 | 935.2 | 905.1 |
| 27.5° | 980.2 | 978.7 | 966.1 | 951.2 | 953.9 | 972.9 | 977.1 | 980.6 | 977.1 | 958.1 | 932.6 |
| 30° | 1062.1 | 1057.1 | 1032.0 | 988.6 | 974.9 | 988.2 | 992.4 | 1001.9 | 1001.9 | 987.8 | 962.3 |
| 32.5° | 1199.2 | 1189.7 | 1143.6 | 1058.3 | 1010.7 | 1002.7 | 1006.9 | 1022.5 | 1030.5 | 1019.4 | 991.6 |
| 35° | 1365.7 | 1355.8 | 1289.9 | 1175.2 | 1076.2 | 1031.6 | 1030.5 | 1048.0 | 1069.3 | 1044.6 | 1008.4 |
| 37.5° | 1532.9 | 1522.7 | 1443.4 | 1314.7 | 1171.8 | 1092.6 | 1085.7 | 1091.8 | 1100.9 | 1055.6 | 1031.6 |
| 40° | 1700.2 | 1688.0 | 1618.7 | 1470.5 | 1288.8 | 1173.3 | 1155.4 | 1128.0 | 1124.2 | 1091.8 | 1076.6 |
| 42.5° | 1865.9 | 1854.8 | 1819.8 | 1645.3 | 1428.9 | 1252.2 | 1224.8 | 1177.5 | 1192.0 | 1172.6 | 1159.2 |
| 45° | 2033.1 | 2033.9 | 1996.6 | 1841.5 | 1598.1 | 1397.7 | 1360.8 | 1286.8 | 1321.1 | 1313.9 | 1321.5 |
| 47.5° | 2181.3 | 2179.4 | 2166.1 | 2032.0 | 1808.0 | 1585.1 | 1537.5 | 1451.8 | 1510.5 | 1537.1 | 1595.4 |
| 50° | 2324.9 | 2323.8 | 2324.6 | 2248.0 | 2051.8 | 1808.0 | 1755.4 | 1665.5 | 1797.7 | 1890.3 | 1994.7 |
| 52.5° | 2530.6 | 2537.1 | 2491.0 | 2470.8 | 2348.2 | 2071.2 | 2013.3 | 1920.4 | 2137.1 | 2283.0 | 2486.8 |
| 55° | 2737.1 | 2731.8 | 2695.6 | 2716.6 | 2658.3 | 2382.8 | 2322.3 | 2248.4 | 2515.0 | 2674.6 | 2980.9 |
| 57.5° | 2858.6 | 2860.6 | 2897.5 | 3000.0 | 3041.1 | 2771.4 | 2716.6 | 2659.4 | 2939.8 | 3052.9 | 3420.5 |
| 60° | 2968.0 | 2976.7 | 3083.0 | 3276.5 | 3388.2 | 3248.7 | 3200.0 | 3144.4 | 3329.5 | 3374.5 | 3802.3 |
| 62.5° | 3002.3 | 3029.3 | 3214.8 | 3504.4 | 3726.5 | 3787.4 | 3726.8 | 3604.2 | 3700.5 | 3683.0 | 4060.9 |
| 65° | 2831.2 | 2868.2 | 3200.7 | 3589.7 | 4028.5 | 4298.6 | 4260.2 | 4032.4 | 4016.7 | 3911.2 | 4103.2 |
| 67.5° | 2380.9 | 2417.9 | 2844.9 | 3410.6 | 4153.5 | 4741.3 | 4702.8 | 4344.7 | 4208.7 | 3932.5 | 3783.2 |
| 70° | 1742.1 | 1765.3 | 2173.7 | 2871.6 | 3902.5 | 4889.9 | 4903.2 | 4497.1 | 4140.2 | 3642.6 | 3106.3 |
| 72.5° | 1003.8 | 1055.2 | 1341.3 | 2020.2 | 3188.2 | 4514.3 | 4606.8 | 4180.2 | 3706.6 | 3038.8 | 2171.8 |
| 75° | 431.6 | 432.8 | 620.2 | 1114.3 | 2159.2 | 3628.5 | 3718.1 | 3465.1 | 2910.8 | 2101.3 | 1159.6 |
| 77.5° | 205.3 | 209.1 | 272.8 | 497.5 | 1188.6 | 2507.0 | 2748.6 | 2448.0 | 1861.7 | 1009.5 | 438.1 |
| 80° | 133.3 | 136.0 | 166.9 | 246.9 | 582.9 | 1453.7 | 1622.1 | 1412.2 | 821.3 | 360.8 | 189.0 |
| 82.5° | 80.8 | 81.5 | 111.6 | 150.9 | 320.8 | 658.3 | 776.0 | 612.9 | 350.5 | 216.0 | 111.2 |
| 85° | 49.1 | 49.5 | 67.8 | 93.3 | 194.7 | 227.4 | 233.5 | 231.6 | 205.7 | 141.3 | 59.4 |
| 87.5° | 23.6 | 24.4 | 35.0 | 44.2 | 76.6 | 70.5 | 66.7 | 77.3 | 97.1 | 76.2 | 25.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 |
| 2.5° | 713.9 | 712.8 | 710.1 | 708.9 | 708.2 | 708.6 | 708.2 | 708.2 | 708.6 | 708.6 | 708.6 |
| 5° | 717.3 | 715.4 | 711.2 | 711.2 | 713.5 | 718.9 | 723.8 | 727.6 | 731.8 | 731.4 | 731.4 |
| 7.5° | 732.2 | 728.8 | 723.8 | 725.3 | 731.0 | 739.4 | 748.2 | 756.6 | 764.9 | 765.7 | 765.3 |
| 10° | 753.9 | 750.5 | 745.1 | 747.0 | 756.2 | 768.8 | 779.8 | 792.0 | 801.1 | 803.8 | 803.0 |
| 12.5° | 778.7 | 771.8 | 767.2 | 772.6 | 787.0 | 803.8 | 814.5 | 823.6 | 830.1 | 833.9 | 832.4 |
| 15° | 803.8 | 797.3 | 792.0 | 803.0 | 820.6 | 836.2 | 841.5 | 843.0 | 844.2 | 848.0 | 847.2 |
| 17.5° | 828.2 | 819.4 | 817.5 | 832.0 | 848.8 | 855.6 | 852.6 | 846.1 | 841.1 | 844.2 | 843.8 |
| 20° | 849.9 | 843.0 | 842.3 | 856.8 | 863.2 | 856.8 | 843.8 | 832.4 | 823.6 | 824.4 | 824.0 |
| 22.5° | 870.5 | 865.1 | 865.9 | 872.0 | 861.7 | 839.6 | 818.3 | 802.7 | 793.1 | 795.0 | 796.2 |
| 25° | 893.3 | 888.0 | 889.9 | 880.0 | 846.1 | 807.6 | 776.8 | 763.4 | 759.6 | 763.4 | 766.1 |
| 27.5° | 923.0 | 919.6 | 918.5 | 880.4 | 818.3 | 760.4 | 725.3 | 720.4 | 723.8 | 732.2 | 736.4 |
| 30° | 955.0 | 955.0 | 948.9 | 873.9 | 780.2 | 703.6 | 673.1 | 673.9 | 685.7 | 697.5 | 701.7 |
| 32.5° | 985.9 | 992.4 | 973.3 | 856.4 | 731.0 | 648.4 | 625.1 | 625.9 | 636.2 | 650.7 | 654.5 |
| 35° | 1011.4 | 1030.1 | 994.3 | 824.4 | 673.1 | 601.9 | 584.4 | 574.1 | 574.5 | 585.5 | 588.6 |
| 37.5° | 1046.5 | 1081.1 | 1006.5 | 776.8 | 611.4 | 562.3 | 542.5 | 524.6 | 512.8 | 508.2 | 508.2 |
| 40° | 1107.4 | 1158.5 | 1009.5 | 706.3 | 553.1 | 524.6 | 496.4 | 475.0 | 452.2 | 431.6 | 427.8 |
| 42.5° | 1210.7 | 1275.0 | 1003.4 | 625.1 | 500.6 | 483.0 | 455.6 | 429.3 | 397.7 | 368.8 | 366.5 |
| 45° | 1393.5 | 1426.7 | 987.0 | 540.9 | 453.7 | 443.0 | 416.4 | 387.8 | 354.3 | 328.4 | 326.5 |
| 47.5° | 1686.5 | 1639.6 | 965.3 | 466.3 | 411.0 | 408.0 | 387.4 | 354.3 | 320.8 | 302.9 | 301.0 |
| 50° | 2114.3 | 1974.8 | 962.3 | 412.2 | 376.8 | 378.3 | 361.5 | 331.0 | 301.7 | 286.9 | 284.6 |
| 52.5° | 2629.3 | 2379.8 | 982.5 | 374.1 | 346.7 | 352.4 | 344.0 | 315.8 | 289.9 | 277.3 | 275.0 |
| 55° | 3129.1 | 2744.0 | 994.7 | 344.4 | 318.5 | 329.1 | 330.3 | 306.7 | 283.0 | 270.5 | 269.0 |
| 57.5° | 3534.8 | 3018.3 | 940.6 | 317.3 | 294.1 | 310.5 | 318.9 | 301.3 | 279.6 | 270.1 | 268.6 |
| 60° | 3817.1 | 3147.8 | 786.7 | 293.3 | 276.2 | 295.6 | 314.7 | 301.7 | 288.0 | 289.1 | 289.9 |
| 62.5° | 3907.0 | 3090.3 | 590.1 | 275.4 | 264.0 | 290.7 | 321.5 | 317.3 | 303.2 | 312.0 | 313.5 |
| 65° | 3758.1 | 2852.6 | 427.8 | 261.3 | 253.3 | 294.1 | 342.1 | 328.8 | 297.9 | 304.4 | 304.4 |
| 67.5° | 3259.4 | 2457.5 | 333.0 | 248.4 | 241.1 | 300.6 | 362.7 | 327.6 | 285.3 | 293.0 | 286.1 |
| 70° | 2585.5 | 1900.9 | 277.3 | 233.9 | 228.2 | 291.0 | 364.6 | 315.8 | 270.5 | 272.0 | 259.0 |
| 72.5° | 1715.8 | 1249.9 | 238.5 | 220.2 | 208.4 | 261.7 | 349.0 | 300.6 | 256.0 | 247.2 | 234.3 |
| 75° | 840.8 | 623.2 | 208.0 | 203.0 | 182.5 | 227.8 | 327.6 | 286.1 | 240.4 | 226.7 | 219.4 |
| 77.5° | 325.7 | 265.1 | 177.5 | 181.3 | 158.9 | 200.8 | 299.4 | 265.5 | 219.8 | 201.1 | 195.4 |
| 80° | 158.1 | 150.5 | 145.5 | 151.2 | 130.7 | 171.0 | 273.5 | 247.6 | 200.8 | 180.2 | 171.8 |
| 82.5° | 98.3 | 93.0 | 111.6 | 117.7 | 100.6 | 156.2 | 259.4 | 232.4 | 176.8 | 149.3 | 142.5 |
| 85° | 49.9 | 53.3 | 74.7 | 80.4 | 72.0 | 124.2 | 213.7 | 174.5 | 127.6 | 105.9 | 106.7 |
| 87.5° | 19.0 | 25.5 | 39.2 | 42.3 | 38.5 | 65.5 | 117.7 | 101.7 | 81.9 | 55.6 | 51.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)